RIDOT TMC Incident Statistics
7/1/2012 To 9/30/2012

The Rhode Island transportation system serves 39 cities and towns, encompassing urban, suburban, and tourism areas. The Rhode Island Department of Transportation's Transportation Management Center (RIDOT TMC) has been addressing the problem of increasing congestion in Rhode Island by informing the traveler of crashes and unusual delays. In doing so, the TMC has provided measurable benefits to the transportation system, and has developed the technology and institutional awareness necessary to expand the Intelligent Transportation Systems (ITS) Program (called RhodeWays) to the benefit of Rhode Island travelers.

The RIDOT TMC maintains detailed statistics on incidents that we manage from our center. Because the data are entered by our TMC Operators, the statistics are dependent on what we can observe on the roadways with our equipment. Review and compilation of these statistics is done quarterly. By making these statistics available to you, we hope that you can learn more about the program and understand the benefit of the services we provide to the Rhode Island motoring public.

The types of incidents tabulated in this report include disabled vehicles, debris on the roadway, emergency roadwork, vehicle accidents, and vehicle rollovers. Additionally, a category exists for congestion delays that are outside of typical recurring congestion. The TMC does assist in information dissemination for planned events (such as construction) as well, but those types of events are not included in the statistics. Also, abandoned vehicles are not included since they tend to skew the statistics.

We hope you find this report interesting and that it helps in understanding the significant benefit that the RhodeWays program provides to the people who travel Rhode Island's roadways every day. Also, please remember to check the TMC website frequently for updates (http://www.tmc.state.ri.us), including construction and incident information.

RIDOT TMC Incident Statistics Report

1.   Peak Period Incident Statistics*

	AM Peak	PM Peak	Off-Peak	Total
Number of Incidents	191	320	452	963
Avg. Incident Clearance Time (min)	48	38	39	41
Avg. Roadway Clearance Time (min)	19	15	20	18
# Detected by TMC Operators	143	83	156	382
# Detected by State Police (RISP)	44	234	282	560
# Notified by RhodeWatchers	0	0	0	0
# Utilizing VMS	9	33	74	116
# Utilizing DMS	49	88	174	311
# Utilizing HAR	34	44	105	183
# Posted to Web	188	313	438	939
Avg. Delay Cost**	$203,527	$162,220	$166,982	$172,648
Total Delay Cost	$38,873,683	$51,910,534	$75,475,854	$166,260,071

* AM Peak: 6:00AM to 10:00 AM, PM Peak: 3:00PM to 7:00PM, Monday - Friday

** Delay Cost is a function of incident duration, volume on the roadway, delay per person, and cost per hour of delay
    for both commercial and personal vehicles. Average delay cost includes only incidents with a lane
    blockage and represents average cost per incident.
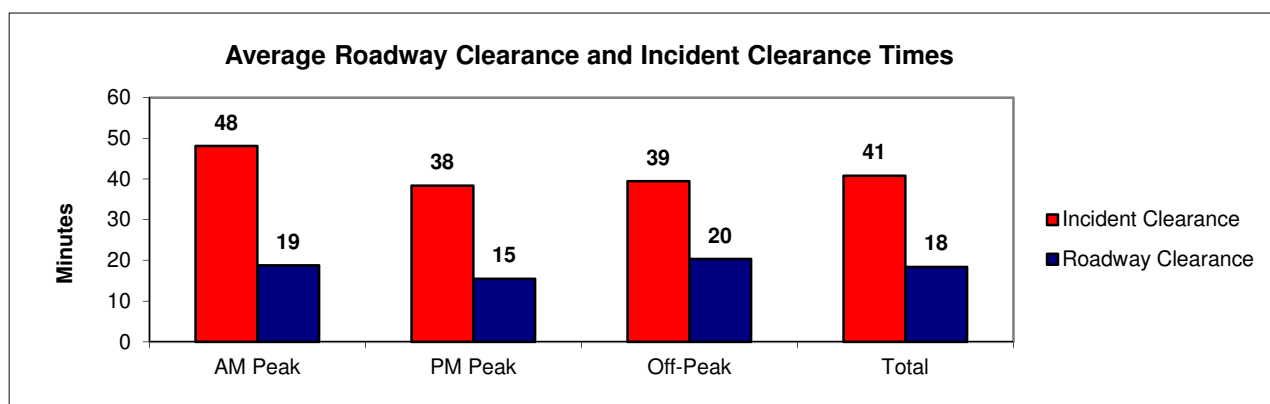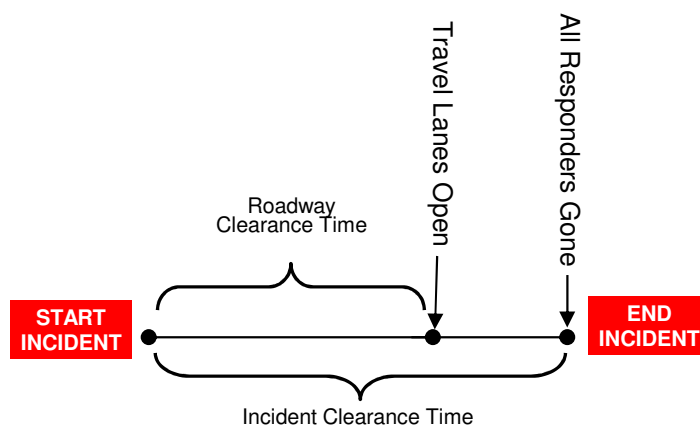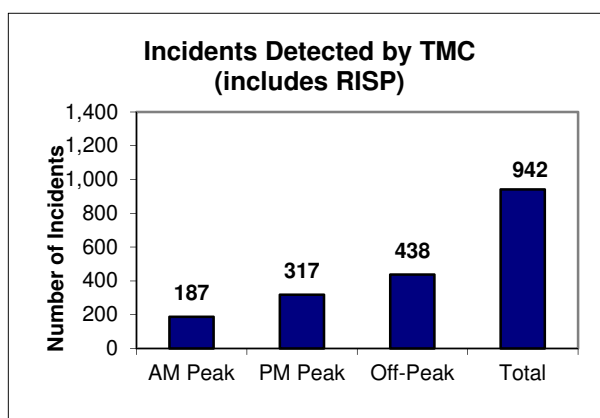
Note: Statistics in this report are only for incidents that the TMC reported or responded to during the quarter.
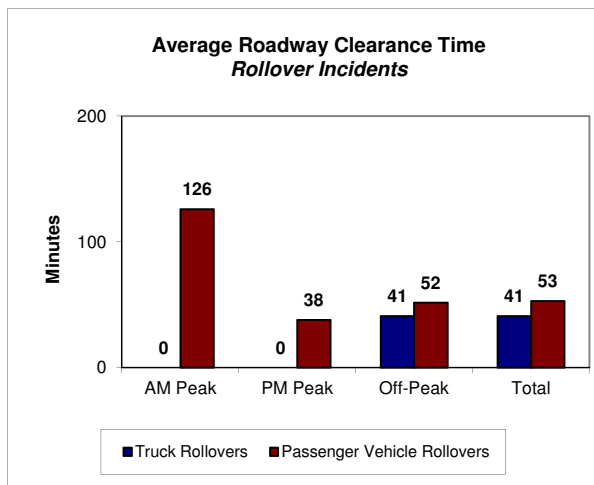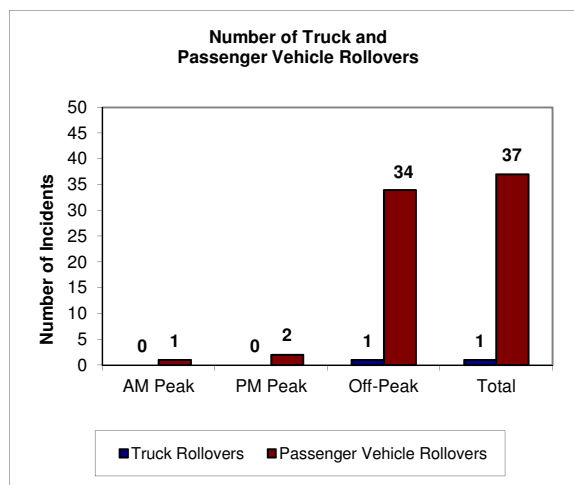They do not include all incidents that occurred on Rhode Island roadways.

Incident Clearance Time is the time from the start of an incident (or when it is detected) to the time when
responders leave the scene and/or the incident is declared as cleared.

Roadway Clearance Time is the time from the start of an incident (or when it is detected) to the time when
all travel lanes are available for traffic.

2. Rollover Incident Statistics*

| | Trucks | | | | Automobiles | | | |
VEHICLES	AM Peak	PM Peak	Off-Peak	Total	AM Peak	PM Peak	Off-Peak	Total
No. of Rollovers	0	0	1	1	1	2	34	37
Avg. Incident Clearance (min)	0	0	42	42	126	39	58	59
Avg. Roadway Clearance (min)	0	0	41	41	126	38	52	53

*AM Peak: 6:00AM to 10:00 AM, PM Peak: 3:00PM to 7:00PM, Monday - Friday

Number of Truck and Passenger Vehicle Rollovers

Average Roadway Clearance Time
Rollover Incidents

Roadway	Exit Number	Number Of Rollovers
Interstate 195 Eastbound	5	1
Interstate 195 Eastbound	2	1
Interstate 195 Westbound	6	1
Interstate 295 Northbound	4	1
Interstate 295 Southbound	7B	1
Interstate 295 Southbound	6	2
Interstate 295 Southbound	11	1
Interstate 95 Northbound	29	1
Interstate 95 Northbound	7	1
Interstate 95 Northbound	18	1
Interstate 95 Northbound	24	1
Interstate 95 Northbound	30	1
Interstate 95 Northbound	6A	1
Interstate 95 Northbound	1	1
Interstate 95 Southbound	1	1
Interstate 95 Southbound	29	2
Interstate 95 Southbound	13	2
Interstate 95 Southbound	8	1
Interstate 95 Southbound	25	1
Interstate 95 Southbound	20	1
Interstate 95 Southbound	21	1
Interstate 95 Southbound	5A	1
Route 006 Westbound	N/A	1
Route 010 Northbound	N/A	2
Route 010 Southbound	N/A	1
Route 037 Westbound	4B	1
Route 037 Westbound	1A	1
Route 114 Northbound	N/A	1
Route 114 Southbound	N/A	1
Route 117 Eastbound	N/A	1
Route 146 Northbound	N/A	2
Route 146 Southbound	N/A	2
	TOTAL	38

Rollovers on Interstates
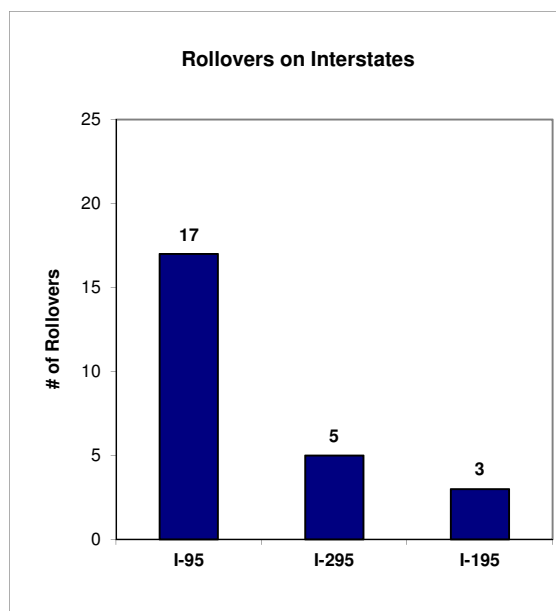
3. Incidents by Severity Level

Severity Level*	No. of Incidents
Severity 0	276
Severity 1	130
Severity 2	84
Severity 3	35
Severity 4	36
Unknown	402
Total	963

Number of Incidents with a Secondary Incident: 7

Percentage of Incidents with a Secondary Incident: 0.73%

Note: A "secondary" incident is one that is the result of an earlier incident.
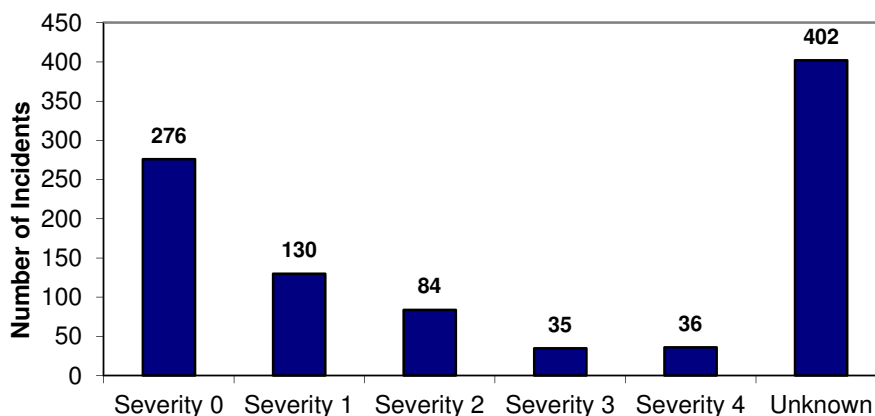
Percent of Incidents by Severity Level

- Severity 0: 29%
- Severity 1: 13%
- Severity 2: 9%
- Severity 3: 3%
- Severity 4: 4%
- Unknown: 42%

Number of Incidents by Severity Level

Severity 0	Severity 1	Severity 2	Severity 3	Severity 4	Unknown
276	130	84	35	36	402
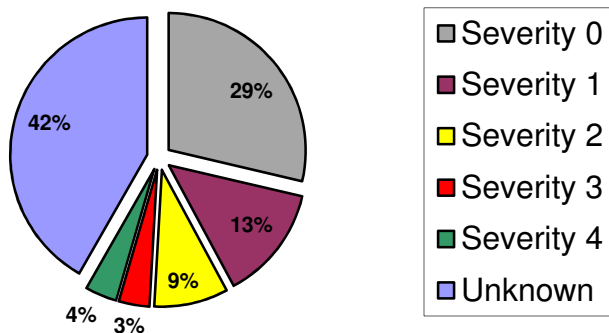
*Definition of Incident Severity Levels:

Severity 0: No injuries and no travel lanes blocked

Severity 1: 1/4+ travel lanes blocked with no injuries OR median/shoulder closed with injuries

Severity 2: 1/3 or 2/4+ lanes blocked OR Fire w/ 0 lanes closed OR hazardous materials (HAZMAT) w/ 0 lanes closed

Severity 3: 1/2 or 2/3 or 3/4+ lanes blocked OR Fire w/ 1/3 or 2/4 lanes closed OR
Hazmat w/ 2/4 lanes closed

Severity 4: All travel lanes blocked OR fatality OR Hazmat w/ clean-up OR Fire w/ 1/2, 2/3, 3/4 lanes closed
OR Structural damage w/ 1/3, 2/3+ lanes closed

Unknown: Incidents without a recorded severity level

Note: For travel lanes blocked terminology, "1/4" indicates 1 out of 4 lanes blocked
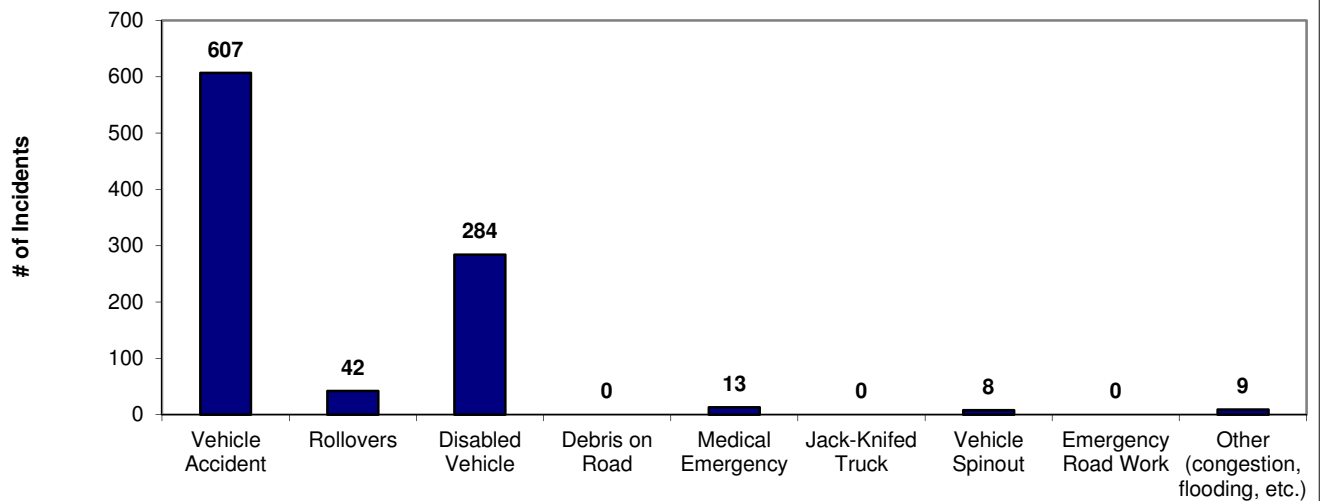
4. Incidents by Type

Incident Type	No. of Incidents
Vehicle Accident	607
Rollovers	42
Disabled Vehicle	284
Debris on Road	0
Medical Emergency	13
Jack-Knifed Truck	0
Vehicle Spinout	8
Emergency Road Work	0
Other (congestion, flooding, etc.)	9
Total Number of Incidents	*963*

5. Incidents by Injury Type

Injury Type	No. of Incidents
Minor	146
Serious	2
Fatality	2
Unknown	280
None	533
Total	*963*

Number of Incidents by Type

# of Incidents

Vehicle Accident	Rollovers	Disabled Vehicle	Debris on Road	Medical Emergency	Jack-Knifed Truck	Vehicle Spinout	Emergency Road Work	Other (congestion, flooding, etc.)
607	42	284	0	13	0	8	0	9

Percent of Incidents by Injury Type

Minor 15.2%
Serious 0.2%
Fatality 0.2%
None 43.8%
Unknown 43.4%
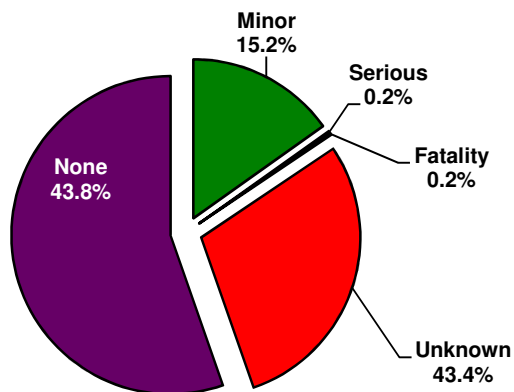
6. Incidents by Pavement and Weather Conditions

Pavement Condition	No. of Incidents
Dry	786
Wet	176
Icy	0
Snow-Covered	0
Flooded	1
Other	0
Total	*963*
Precipitation	
None	808
Light-moderate rain falling	142
Heavy rain falling	12
Light-moderate sleet falling	1
Heavy sleet falling	0
Light-moderate snow falling	0
Heavy snow falling	0
Total	*963*
Wind	
Calm to Moderate	951
Moderate to Strong	9
Gusts over 50 mph	0
Gusts over 75 mph	0
Hurricane	0
Other	0
N/A	3
Total	*963*
Visibility	
Clear	837
Light fog	7
Dense fog	0
Reduced- rain	109
Reduced-snow	1
Poor-heavy rain/sleet	5
Poor-heavy snow	0
Reduced-smoke	0
Other	0
N/A	4
Total	*963*

7.   Incidents Detected by Primary Notifier on Selected Roadways

Roadway	Primary Notifier	No. of Incidents
I-195	TMC Operator	42
	State Police Scanner	41
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	4
	Total	*87*
I-95	TMC Operator	258
	State Police Scanner	283
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	38
	Total	*579*
I-295	TMC Operator	23
	State Police Scanner	34
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	6
	Total	*63*

Roadway	Primary Notifier	No. of Incidents
Route 10	TMC Operator	10
	State Police Scanner	27
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	3
	Total	*40*
Route 146	TMC Operator	15
	State Police Scanner	31
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	10
	Total	*56*
Route 6	TMC Operator	15
	State Police Scanner	22
	Local Fire Department	0
	Rhode Watcher	0
	Media/MetroNetworks	0
	Traffic.com	0
	Transcom	0
	Other	1
	Total	*38*

Number of Incidents on Selected Roadways

Roadway	Number of Incidents
I-95	579
I-195	87
Route 10	40
Route 146	56
Route 6	38
I-295	63
Other	100
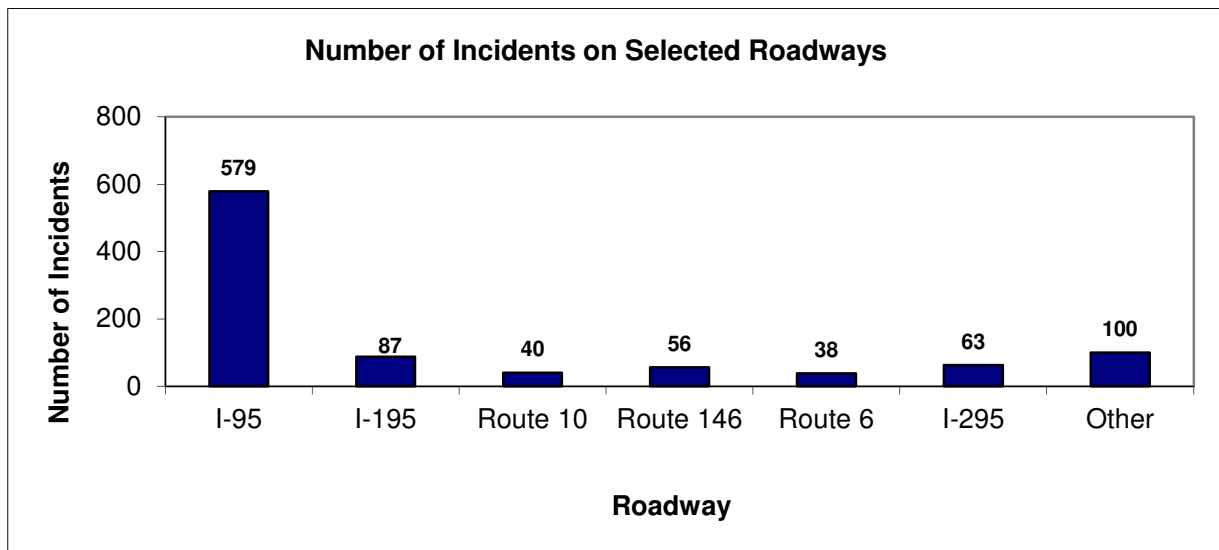
8. Incidents by Number of Vehicles Involved

No. of Vehicles Involved	No. of Incidents
1	6
2	476
3	385
4	67
5	17
6	6
7	1
8	0
9	1
10+	1
Unknown	3
Total Incidents	*963*

Number of Incidents by Vehicles Involved

- 1
- 2
- 3
- 4
- Unknown

0% 1% 7% 41% 51%
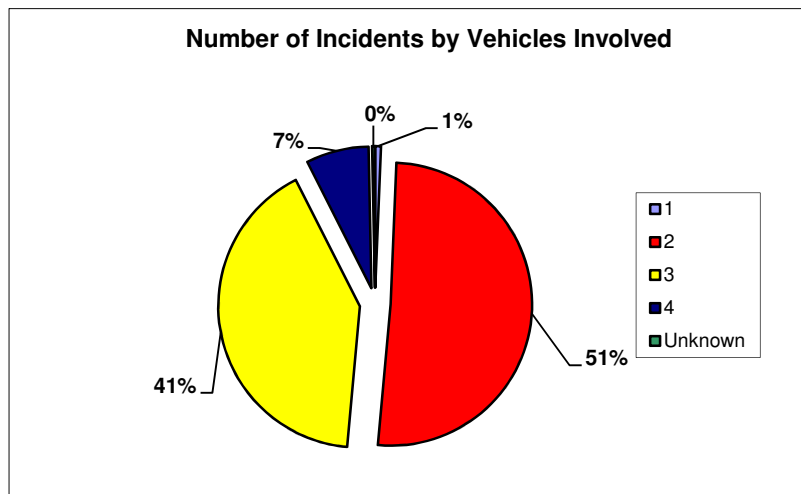
9. Incident Notification

Primary Notifier*	No. of Incidents
TMC Operator	382
Local Fire Department	0
RIDOT Maintenance	7
Media	0
Traffic.com	0
Local Police	11
Rhode Watcher	0
RISP	560
Transcom	0
Other	3
Total	*963*

*First notifier of the incident to TMC

Percent of Incidents by Primary Notifier

- Transcom, 0.0%
- Other, 0.3%
- TMC Operator, 39.7%
- RIDOT Maintenance, 0.7%
- Local Fire Department, 0.0%
- Traffic.com, 0.0%
- Local Police, 1.1%
- Rhode Watcher, 0.0%
- Media, 0.0%
- RISP, 58.2%

Number of Incidents by Primary Notifier

Bar chart showing values:
- TMC Operator: 382
- Local Fire Department: 0
- RIDOT Maintenance: 7
- Media: 0
- Traffic.com: 0
- Local Police: 11
- Rhode Watcher: 0
- RISP: 560
- Transcom: 0
- Other: 3
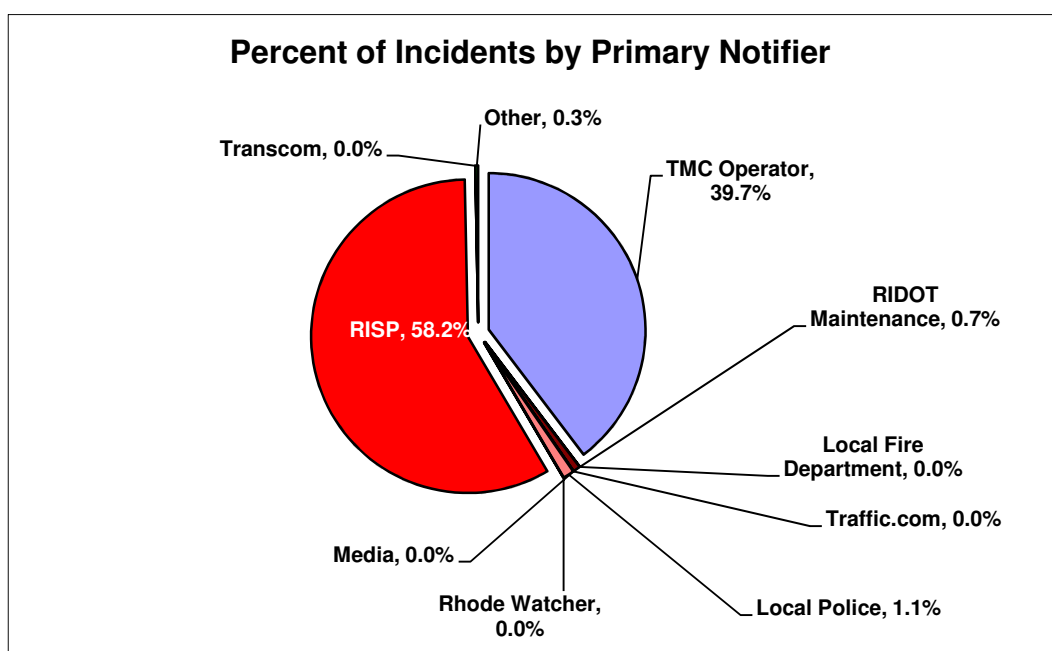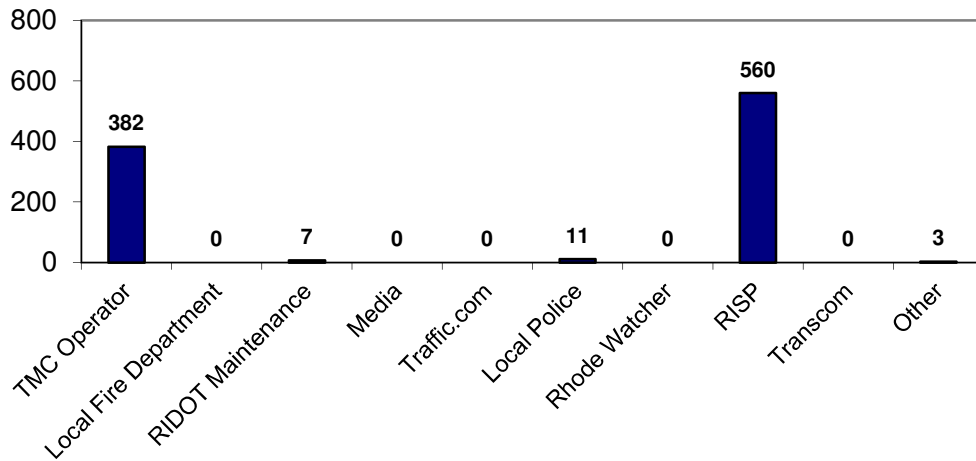
All Notifiers	No. of Incidents
RISP	758
TMC Operator	592
Rhode Watcher	0
Media	0
Local Police	13
Local Fire Department	0
Transcom	0
RIDOT Maintenance	8
Traffic.com	0
Other	1

Note: Primary notifier indicates the first notifier of the incident to the TMC. Additional notifiers are also logged, and are represented in the statistics for "all notifiers".

Number of Incidents by All Notifiers

Bar chart showing values:
- RISP: 758
- TMC Operator: 592
- Rhode Watcher: 0
- Media: 0
- Local Police: 13
- Local Fire Department: 0
- Transcom: 0
- RIDOT Maintenance: 8
- Traffic.com: 0
- Other: 1
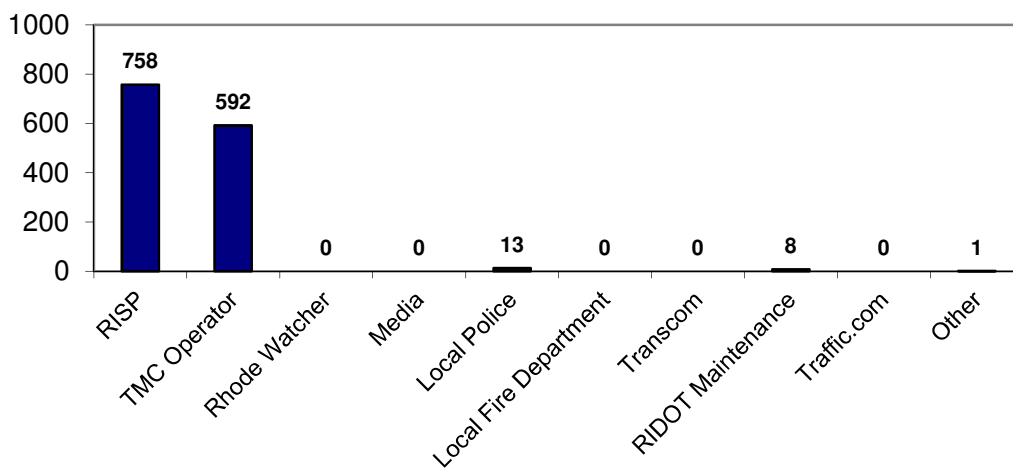
10.   Incident Response

On-Scene Responding Agency	No. of Incidents	% of Total Incidents
State Police	824	85.57%
Tow	381	39.56%
Local Fire Department	264	27.41%
EMS	256	26.58%
Local Police	70	7.27%
Service Patrol	2	0.21%
Mass Highway	1	0.10%
DOT	18	1.87%
Hazmat	0	0.00%
DEM	2	0.21%
Connecticut DOT	0	0.00%
Construction	5	0.52%
Coast Guard	0	0.00%
Department of Health	0	0.00%
K-9	0	0.00%
RIPTA	0	0.00%

	# of Incidents
# Utilizing (HAR,VMS or DMS)	373
# Utilizing VMS	116
# Utilizing DMS	311
# Utilizing HAR	183
# Posted to Web	939

ITS Equipment Usage
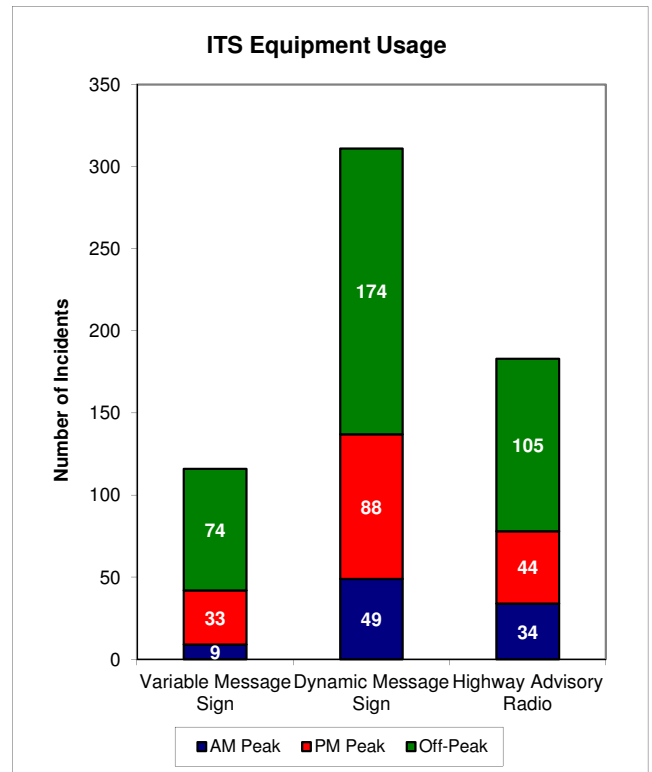
Note: Numbers and percentages in upper table indicate how many of the incidents during the month were responded to by the agency indicated. Note that multiple agencies may respond to an incident, so percentages do not add up to 100%.

Number of Incidents by On-Scene Responding Agency